164 #7

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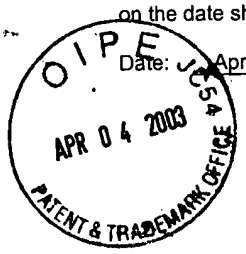
Date: April 1, 2003 By: Kay L. Gavriglio



PATENT
Docket No. GC652

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)
)
Shaw .) Group Art Unit: 1645
)
Serial No.: 10/068,374) Examiner: Unassigned
)
Filed: February 6, 2002)
)
For: **MODIFIED TARGET ENZYMES HAVING CATALYTIC TRIADS AND USES THEREOF**)

Information Disclosure Statement

Commissioner for Patents
Washington, DC 20231

Sir:

Applicants submit herewith patents, publications or other information (listed on the attached Form PTO-1449 and attached thereto) of which they are aware, that they believe may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR §1.56.

A concise explanation of relevance of the items listed on PTO-1449 is:

- ☒ not given
- ☐ given for each listed item
- ☐ given for only non-English language listed item(s)
- ☐ in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

A copy of the items on Form PTO-1449 is supplied: PCT International Search Report for PCT/US 02/03347, filed February 4, 2002 with attached patents and publications.

☐ each ☒ none ☐ only those listed below:

The Examiner is reminded that a "concise explanation of the relevance" of the submitted prior art "may be nothing more than identification of the particular figure or paragraph of the patent or publication which has some relation to the claimed invention." MPEP §609.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR §1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR §1.97(b), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR §1.56(a) exists. It is submitted that the Information Disclosure Statement is in compliance with 37 CFR §1.98 and MPEP §609 and the Examiner is respectfully requested to consider the listed references.

Respectfully submitted,

Date: April 1, 2003

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INFORMATION DISCLOSURE CITATION

Attorney Docket No.: GC652	**Serial No.:** 10/068,374
Applicant: Shaw	
Filing Date: February 6, 2002	**Group:** 1645
Page 1 **of** 1	**Date of this Submission:** April 1, 2003

US PATENT DOCUMENTS

Examiner's Initial	Document Number	Date	Name	Class	Sub-Class	Filing Date

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Document Number	Date	Country	Class	Sub-Class	Translation Yes/No
	0 739 982 A1	10/30/1996	EP			

OTHER DOCUMENTS

Examiner's Initials	Author, Title, Date, Pertinent Pages, etc.
	Beguin, P., "Molecular Biology of Cellulose Degradaton", *Ann Rev. Microbiol*, 1990 Vol. 44, pp. 219-248
	Davies et al., "Structure of the Bacillus agaradherans Family 5 Endoglucanase at 1.6 A and Its Celobiose Complex at 2.0 Resolution", *Biochemistry,* 1998, Vol. 37, pp. 1926-1932
	DeSantis et al., " Chemical Modifications at a Single Site Can Induce Significant Shifts in the pH Profiles of a Serine Protease", *J. Am. Chem. Soc.*, 1998 Vol. 120, pp. 8582-8586
	Dodson et al., "Catalytic triads and their relatives", *TIBS*, 1998, Vol. 23(9), pp.347-352
	Shaw et al., "A Novel Combination of Two Classic Catalytic Schemes", *J. Mol. Biol.*, July 2002, Vol. 320, pp. 303-309
	Shirai et al., "Crystal Structure of Alkaline Cellulase K : Insight into the Alkaline Adaptation of an Industrial Enzyme", July 2001, Vol. 310, pp. 1079-1087
	Wang et al., "Glu280 Is the Nucleotiphile in the Active Site of Clostridium thermocellum CelC, a Family A Endo-Beth-1, 4-glucanase," *J. Biol. Chem.,* 05 July 1993, V268(19), pp. 14096-14106

Examiner	Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.